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### CONSULTANT INFORMATION

VA FORM 08-6231

Revision #

### STRUCTURAL / CIVIL ENGINEER

### STAND STRUCTURAL ENGINEERING SPUR DESIGN 11827 W. 112TH STREET, SUITE 200 11020 KING STREET, SUITE 350 OVERLAND PARK, KS 66210 OVERLAND PARK, KS 66210 (913) 214-2169

### MECHANICAL / ELECTRICAL / FIRE PROTECTION PLUMBING / TECHNICAL ENGINEER ENGINEER

(405) 842-6100

POOLE FIRE PROTECTION, INC. 19910 W. 161ST STREET OLATH, KS 66062 (913) 829-8650

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	GENERAL PLUN	MBING SYMBOLS	VALVE SYMBOL	S	PLUMBING PIF	PING SYMBOLS			GENERAL DUC	CT SYMBOLS
OUTSIDE AIR G OUTSIDE AIR GRILLE	CLEANOUTS		- 74	ANGLE GLOBE VALVE	EXISTING PIPING		WASTE			
OUTSIDE AIR INTAKE OUTSIDE DIAMETER	CO	CLEANOUT	一 午 一			EXISTING PIPING TO BE REMOVED	AW	- ACID WASTE - ABOVE FLOOR (AW)		EXISTING DUCTWORK OR EQUIPMENT TO REMAIN
OPERATING ROOM		DOUBLE EXTERIOR CLEANOUT (ECO)	AV	AUTOMATIC AIR VENT		- EXISTING PIPING TO REMAIN	AW	<ul> <li>ACID WASTE - BELOW FLOOR (AW)</li> <li>ACID VENT (AV)</li> </ul>		EXISTING DUCTWORK OR EQUIPMENT TO BE REMOVED
PUMP PASCAL		EXTERIOR CLEANOUT (ECO)	ibi	AUTOMATIC BALANCING CONTROL VALVE	FOEL		ACD	- AUXILIARY CONDENSATE DRAIN (ACD)	z 10x8 z	NEW DUCT (INSIDE DIMENSIONS: WIDTH x DEPTH)
PUMPED CONDENSATE POUNDS PER CUBIC FOOT (FEET)		FLOOR CLEANOUT (FCO)		AUTOMATIC FLOW CONTROL VALVE	FOR	- FUEL OIL RETURN (FOR)	CD	- CONDENSATE DRAIN (CD)		
PROPELLER (TYPE) EXHAUST FAN PRE-FILTER		WALL CLEANOUT (WCO)		BALANCING VALVE WITH PRESSURE PORTS	FOV LPG	<ul> <li>FUEL OIL VENT (FOV)</li> <li>LIQUIFIED PETROLEUM GAS (LPG)</li> </ul>	EV	- EVACUATION (EV)		CONNECT NEW DUCT TO EXISTING DUCT
PRESSURE GAGE PROPYLENE GLYCOL-WATER (SOLUTION) PREHEAT COIL			6	BALL VALVE	MPG	<ul> <li>MEDIUM PRESSURE NATURAL GAS (MPG)</li> <li>MEDIUM PRESSURE NATURAL GAS ON ROOF (MPG)</li> </ul>	ID	<ul> <li>INDIRECT DRAIN (ID)</li> <li>GREASE WASTE - ABOVE ELOOR (GW)</li> </ul>		
PARTS PER MILLION PRESSURE REGULATING (VALVE) STATION PRESSURE REGULATING VALVE	DRAINS AND TRAPS		/¢/	BUTTERFLY VALVE	G	— NATURAL GAS (G)	GW	<ul> <li>GREASE WASTE - BELOW FLOOR (GW)</li> </ul>		LIMIT OF DEMOLITION
POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH – ABSOLUTE POUNDS PER SQUARE INCH – GAGE		FLOOR SINK (FS), SIZE & TYPE		CIRCUIT SETTER VALVE	GG	NATURAL GAS BELOW GRADE (G)	S	- SOIL PIPING - ABOVE FLOOR (S)		
PRIMARY SECONDARY SYSTEM PRESSURE SAFETY VALVE PACKAGED TERMINAL AIR CONDITIONER		FLOOR DRAIN (FD), SIZE & TYPE		CHECK VALVE	FOD		S	<ul> <li>SOIL PIPING - BELOW FLOOR (S)</li> <li>TRAP PRIMER LINE (T)</li> </ul>		DUCT WITH SOUND LINING
PACKAGED TERMINAL AIR CONDITIONER		~ <i>//</i>		CONTROL VALVE (CV) - FLOAT-OPERATED	IA	- INDUSTRIAL AIR	T	<ul> <li>TRAP PRIMER LINE - BELOW SLAB (T)</li> </ul>	ļļ	LOUVER
RETURN OR EXHAUST RETURN AIR REFLICEPANT AIR DRYER	$(\bigcirc)$	ROOF DRAIN (RD), SIZE & TYPE		GATE VALVE	LA	<ul> <li>LABORATORY AIR</li> <li>LABORATORY VACUUM</li> </ul>	VBF	<ul> <li>VENT BELOW FLOOR (VBF)</li> </ul>		
RADIO FREQUENCY ROTARY AIR HEAT EXCHANGER	X	INVERTED BUCKET TRAP SET INCLUDING PIPING ACCESSORIES		GATE VALVE WITH GLOBE-VALVED BYPASS	OA	- ORAL EVACUATION	VBG	VENT BELOW GRADE (VBG)     VENT PIPING (V)	$\bigcirc$	DUCT MOUNTED SMOKE DETECTOR (SD=SUPPLY/RD=RETURN)
RETURN AIR TEMPERATURE REMOTE CONDENSER CHILLER RECIPROCATING CHILLER UNIT		- FLOAT & THERMOSTATIC TRAP SET W/			MEDICAL GASES			- WASTE PIPING - ABOVE FLOOR (W)	EITTINGS & TRANSIT	ONS
REFRIGERANT DISCHARGE ROOM DATA SHEETS RELIEF AIR		PIPING ACCESSORIES		GATE VALVE WITH 3/4 " HOSE ADAPTER	CO	CARBON DIOXIDE (CO)	W	WASTE PIPING - BELOW FLOOR (W)		
RETURN FAN RETURN GRILLE RELATIVE HI MIDITY				GLOBE VALVE	AI	- MEDICAL AIR INTAKE (AI)	WATER			ELBOW WITH TURNING VANES
REHEAT COIL REFRIGERANT HOT GAS	EQUIPMENT		\$'	MANUAL AIR VENT	MA	<ul> <li>MEDICAL AIR (MA)</li> <li>MEDICAL VACUUM (MV)</li> </ul>	140°	THE DOMESTIC HOT WATER (140°)     DOMESTIC COLD WATER		RETURN, EXHAUST, OR OUTSIDE AIR DUCT UP
REFRIGERANT LIQUID LINE RUN LOAD AMPERE REVERSE OSMOSIS		- BACKFLOW PREVENTER		MODULATING CONTROL BUTTERFLY VALVE	VE	— MEDICAL VACUUM EXHAUST (VE)		- DOMESTIC HOT WATER		
REVOLUTIONS PER MINUTE RETURN REGISTER REFRIGERANT SUCTION	Q	- PRESSURE GAUGE			NN			— DOMESTIC HOT WATER RECIRC.		NETONN, LAHAUST, UN OUTSIDE AIR DUCT DUWN
ROOF TOP UNIT RELIEF VALVE				MODULATING CONTROL VALVE	0	- OXYGEN (O)	FCW	- FILTERED COLD WATER		SUPPLY AIR DUCT UP
SUPPLY AIR				PLUG VALVE		+ MEDICAL GAS OUTLET (TYPE)	FP NPW	<ul> <li>PIRE PROTECTION (FP)</li> <li>NON POTABLE WATER (NPW)</li> </ul>		SUPPLY AIR DUCT DOWN
SOUND ATTENUATING DEVICE SUPPLY AIR TEMPERATURE SHADING COEFFICIENT	Ţ	- THERMOMETER	₽	PRESSURE REDUCING VALVE	STORM		scw	- SOFTENED COLD WATER (SCW)		
STANDARD CUBIC FEET PER MINUTE SPINAL CODE INJURY SILICON CONTROL ED RECTIEIER		— WATER METER	$\overline{\mathbf{n}}$		OST		TWS	TEMPERED WATER SUPPLY		SQUARE TO ROUND TRANSITION
SMOKE DETECTOR SUPPLY AIR DIFFUSER		+ NONFREEZE WALL HYDRANT (NW)		PRESSURE REGULATING VALVE	ST	<ul> <li>STORM DRAIN - ABOVE FLOOR (ST)</li> <li>STORM DRAIN - BELOW FLOOR (ST)</li> </ul>	TWR WS	TEMPERED WATER RETURN     WATER SERVICE (WS)	Ź <b>₩₩► R</b> Ź	INCLINED RISE, IN DIRECTION OF AIR FLOW
SCHEMATIC DESIGN (SUBMISSIONT) SCHEMATIC DESIGN (SUBMISSION2) SMOKE DAMPER		— HOSE BIBB (HB)		PRESSURE RELIEF VALVE	SPD	— SUMP OR SEWAGE PUMP DISCHARGE (SPD)		- SOLAR WATER SUPPLY		INCLINED DROP, IN DIRECTION OF AIR FLOW
SMOKE DAMPER (RETURN) SMOKE DAMPER (SUPPLY) SENSIBLE HEAT							SWR	SOLAR WATER RETURN	 DIFFUSERS,GRILLES,	FLEX CONNECTIONS
SUPPLY FAN SUPPLY AIR GRILLE STEAM HUMIDIFIER	PIPE FITTINGS AND A	CCESSORIES		SOLENOID VALVE	HVAC PIPING	SYMBOLS				
STEAM HEATING COIL SQUARE INCHES STATIC PRESSURE	——————————————————————————————————————	ANCHOR		TEST PLUG (PRESSURE/TEMPERATURE)	STEAM		BRINE & SOFT WATER			EQUIPMENT WITH FLEXIBLE DUCT CONNECTION
SPECIFIC GRAVITY SUPPLY PROCESS AND DISTRIBUTION STEAM PRESSURE REDUCING VALVE		CONNECTION - BOTTOM, 45° OR 90°	V	THERMOSTATIC MIXING VALVE	HPS	HIGH PRESSURE STEAM SUPPLY (HPS)	SW	- SOFTENED WATER		INSULATED FLEXIBLE DUCT (MAX. 5'-0" LONG)
STEAM FRESSURE REDUCING VALVE STATIC PRESSURE SENSOR SQUARE FOOT (FEET)		CONNECTION - SIDE	<b>A</b>		HPC	HIGH PRESSURE STEAM CONDENSATE (HPC)	GCS	CHILLED GLYCOL-WATER SUPPLY     CHILLED GLYCOL-WATER RETURN		LINEAR SLOT DIFFUSER
SUPPLY AIR REGISTER STAINLESS STEEL STEAM TO STEAM HEAT EXCHANGER	U	CONNECTION - TOP, 45° OR 90°		THREE-WAY MODULATING CONTROL VALVE	LPS	LOW PRESSURE STEAM SUPPLY (LPS)	GHS	<ul> <li>GLYCOL-WATER HEATING SUPPLY</li> </ul>		
SOLID SEPARATOR STEAM TRAP STEAM UNIT HEATER				THREE-WAY TWO POSITION CONTROL VALVE	LPC	LOW PRESSURE STEAM CONDENSATE (LPC)	GHR	— GLYCOL-WATER HEATING RETURN		<u>10" CSD-1 300 CFM</u> NECK SIZE, TYPE, CFM OF SUPPLY DIFFUSER/ REGISTE
STEAM PRESSURE REDUCING VALVE STEAM VENT SILENCER STEAM TO WATER HEAT EXCHANGER				TRIPLE DUTY VALVE WITH PRESSURE PORTS	MPS	— MEDIUM PRESSURE STEAM SUPPLY (MPS)	GRS GRR	<ul> <li>GLYCOL-WATER RUN AROUND SUPPLY</li> <li>GLYCOL-WATER RUN AROUND RETURN</li> </ul>		24x24 CEG-1 800 CFM SIZE TYPE CEM OF EXHAUST GRULE
	+0	ELBOW UP	X	TWO POSITION CONTROL VALVE	MPC	MEDIUM PRESSURE STEAM CONDENSATE (MPC)	PLANT PIPING		DUCT W/DAMPERS	
TEMPERATURE AND PRESSURE CONTROL VALVE TESTING, ADJUSTING, BALANCE TEMPERATURE DIFFERENCE	C+				PD	CONDENSATE PUMP DISCHARGE (PD)	BO BWS	BOILER BLOWOFF     BOILER WATER SAMPLE		
TOTAL DYNAMIC HEAD TOTAL DISSOLVED SOLIDS TRANSFER GRILLE		ELBOW UP WITH SHUT-OFF VALVE (SOV)		VACUUM RELIEF VALVE	CWS	<ul> <li>CONDENSER WATER SUPPLY (CWS)</li> </ul>	BWS CF	- CHEMICAL FEED	μ BDD	BACK DRAFT DAMPER
TRAP TOP REGISTER TOTAL STATIC DEESSURE	·⊻ ────	<ul> <li>FLANGE CONNECTION</li> </ul>		WATER BALANCE DEVICE	CWR	CONDENSER WATER RETURN (CWR)	CHWR	CHILLED WATER RETURN (CHWR)     CHILLED WATER SUPPLY (CHWS)		BRANCH DUCT WITH 45° RECTANGLE-ROUND BRANCH
THERMOSTAT TERMINAL UNIT	D	- REDUCER	DIVISION 23 PIPE FITTING	S AND ACCESSORIES	CD		CBD	<ul> <li>CONTINUOUS BLOWDOWN</li> </ul>		FITTING AND MANUAL VOLUME DAMPER
THRU-WALL UNIT		- RISE OR DROP IN PIPE	т		REFRIGERANT		FWPD	FEEDWATER PUMP DISCHARGE     EEEDWATER PUMP SUCTION		BRANCH DUCT WITH BELL-MOUTH FITTING & MANUAL VOLUME CONTROL DAMPER
UNDER CUT UNIT COOLER UNIT HEATER		STRAINER	+₩+	— GAS COCK	RL		FWS	<ul> <li>FEEDWATER SAMPLE (DEAERATOR)</li> </ul>	$\vdash$	
UNDERWRITERS LABORATORY UPBLAST UNIT VENTILATOR		— TEE UP		EXPANSION JOINT	RD		HWR	HEATING HOT WATER RETURN (HWR)     HEATING HOT WATER SLIPPLY (HWS)		
VALVE		<ul> <li>TEE DOWN</li> <li>TEE UP WITH SHUT-OFF VALVE (SOV)</li> </ul>	×	— F & T TRAP	RS	REFRIGERANT SUCTION (RS)     REFRIGERANT DISCHARGE BYPASS (RDB)	HPSR	— HEAT PUMP WATER RETURN (HPWR)		DAMPERS: (BD, FD, FSD, MD, SD, VD)
VANE-AXIAL FAN VARIABLE AIR VOLUME VOLUME DAMPER (MANUAL OPPOSED BLADE)		— TEE DOWN WITH SHUT-OFF VALVE (SOV)	Ē		RV	REFRIGERANT VENT (RV)		HEAT PUMP WATER SUPPLY (HPWS)		MANUAL VOLUME DAMPER
VARIABLE FREQUENCY DRIVE VETERANS HEALTH ADMINISTRATION	i +	— UNION	<b>P</b>		(O)		TC OFL	<ul> <li>TUBE CLEANER WATER SUPPLY</li> <li>OVERFLOW</li> </ul>		
VIBRATION ISOLATOR VARIABLE INLET VANES VACUUM PUMP	———С	QUICK-COUPLE HOSE CONNECTOR		— PRESSURE / VACUUM SWITCH			GENERAL PL	UMBING EQUIPMENT		
VARIABLE PRIMARY SYSTEM VACUUM (STEAM CONDENSATE) RETURN VARIABLE SPEED DRIVE					$ \begin{array}{c c} 1 \\ \hline X100 \end{array} $	DETAIL NUMBER SHEET NUMBER				
VERTICAL UNIT HEATER				WYE STRAINER (WITH BALL VALVE & HOSE CONNECTION)						
WATTS WASTE ANETHESIA GAS			· · · ·	WYE STRAINER WITH VALVED DRAIN AND	1 S X100 S	ECTION NUMBER HEET NUMBER		BATHTUB		COUNTER TOP LAVATORY & TYPE
WET-BULB (TEMPERATURE) WATER COOLED WATER COOLED CHILLER		FLOW METER	- Ar	QUICK-COUPLE HOSE CONNECTOR				SHOWER		WALL MOUNTED LAVATORY & TYPE
WATER COOLED CONDENSING UNIT WATER COOLED HEAT PUMPS WATER COOLED PACKAGED UNIT					N	EW WORK TO EXISTING WORK CONNECTION POINT				
WALL EXHAUST FAN WALE FILTER	ANNOTATION			PLAN NOTE CALL OUT		IMIT OF DEMOLITION		SHOWER HEADS	[]	
WATER FLOW CONTROL VALVE WATER FLOWMETER WATER FLOW MEASURING DEVICE		BUILDING NO. WHERE EQUIPMENT IS LOCATED.		AL OR FIRE SPRINKLER PLAN NOTE CALL OUT	ETR E	XISTING TO REMAIN				
WATER GAGE WATER SIDE PRESSURE DROP	/	EQUIPMENT ABBREVIATION (PUMP)	1 ELECTRIC	AL OR FIRE ALARM PLAN NOTE CALL OUT				IANK IYPE WATER CLOSET	0	JANITORS SINK
YEAR	26-P 3	PUMP NO.3 IN BUILDING NO.26	TECHNOLO	OGY PLAN NOTE CALL OUT		ER BACKDRAFT DAMPER		FLOOR MOUNTED FLUSH VALVE WA		
		TYPICAL UNIT NO.	$\smile$							1
			1 OWNER F	JRNISHED, CONTRACTOR INSTALLED	FIRE SMOK	E DAMPER (H) HUMIDISTAT			-FR    9 //	
				JRNISHED, CONTRACTOR INSTALLED IT DESIGNATION	FIRE SMOK	E DAMPER (H) HUMIDISTAT MPER (T) THERMOSTAT		WALL MOUNTED FLUSH VALVE WAT CLOSET	TER	JANITORS SINK - CORNER
	26 TILLI	BUILDING NO. WHERE EQUIP. IS LOCATED     ITEM (TERMINAL UNIT SHOWN)	1     OWNER FI       EQUIPMEN       XX-1	JRNISHED, CONTRACTOR INSTALLED IT DESIGNATION EQUIPMENT DESIGNATION	FIRE SMOK SMOKE DAI	E DAMPER (H) HUMIDISTAT MPER (T) THERMOSTAT AMPER (H) HUMIDITY SENSOR		WALL MOUNTED FLUSH VALVE WAT CLOSET URINAL	TER	JANITORS SINK - CORNER SINK & TYPE

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ND	PROJECT PHASE BID DOCUMENTS	RENOVATE	A & B WING BU	JILDING 6	VA PROJECT NUMBER 589A5-19-116
		PROJECT LOCATION	AGE BLVD.		BUILDING NUMBER
		TOPEKA, KS 66622		drawing number 6-M-000	
	FULLY SPRINKLERED	DATE	CHECKED BY	DRAWN BY	
		07/10/19	JES	JAD	Dwg. 90 OF 160

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ON PLAN - OR PLAN	BID DOCUMENTS	RENOVATE	RENOVATE A & B WING BUILDIN			
		PROJECT LOCATION	AGE BLVD.			
		TOPEKA, K	S 66622			
	FULLI SFRINKLERED	DATE	CHECKED BY	D		
		07/10/19	JES			

<u>GE</u>	NERAL NOTES:
1.	THE AREA OF WORK SHOWN IS ASSOCIATED WITH AN OPERATING FACILITY THA MUST REMAIN IN SERVICE 24/7.
2.	SEE SHEET 6-GI-001 FOR ADDITIONAL INFORMATION REGARDING SCHEDULE AN PHASING REQUIREMENTS. SCHEDULE WORK TO MINIMIZE DISRUPTION OF SERVICES.
3.	COORDINATE WORK SCHEDULE WITH THE CONTRACTING OFFICER'S REPRESENTATIVE BEFORE THE START OF WORK.
4.	COORDINATE MECHANICAL WORK WITH ALL OTHER TRADES. VERIFY ALL EXIST CONDITIONS PRIOR TO THE START OF WORK.
<u>DE</u>	DUCT ALTERNATE AND PHASING GENERAL NOTES:
1.	ALL PLAN WORK SHOWN ON THIS SHEET IS SUBJECT TO THE OVERALL PROJEC PHASING SEQUENCE OUTLINED ON ARCHITECTURAL SHEET 6-GI-102.
2.	IN ADDITION, IF THE DEDUCT ALTERNATE IS ELECTED, ALL PLAN WORK ON THIS SHEET IS ALSO SUBJECT TO THE REDUCED AREAS OF WORK AS DEFINED ON ARCHITECTURAL SHEET 6-GI-105.



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START OF WORK. <u>G GENERAL NOTES:</u> THIS SHEET IS SUBJECT TO THE OVERALL PROJECT ED ON ARCHITECTURAL SHEET 6-GI-102. LTERNATE IS ELECTED, ALL PLAN WORK ON THIS

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VORK WITH ALL OTHER TRADES. VERIFY ALL EXISTING

HEDULE WORK TO MINIMIZE DISRUPTION OF LE WITH THE CONTRACTING OFFICER'S HE START OF WORK.

SASSOCIATED WITH AN OPERATING FACILITY THAT ITIONAL INFORMATION REGARDING SCHEDULE AND









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			<ul> <li>GENERAL NOTE</li> <li>1. THE AREA O MUST REMA</li> <li>2. SEE SHEET PHASING RE SERVICES.</li> <li>3. COORDINAT REPRESENT</li> <li>4. COORDINAT CONDITIONS</li> <li>DEDUCT ALTER</li> <li>1. ALL PLAN W PHASING SE</li> <li>2. IN ADDITION SHEET IS AL ARCHITECT</li> </ul>	ES: DF WORK SHOWN IS ASSOCIA AIN IN SERVICE 24/7. 6-GI-001 FOR ADDITIONAL INF EQUIREMENTS. SCHEDULE WO FE WORK SCHEDULE WITH TH TATIVE BEFORE THE START O FE MECHANICAL WORK WITH A S PRIOR TO THE START OF WO NATE AND PHASING GENERAL ORK SHOWN ON THIS SHEET EQUENCE OUTLINED ON ARCH SO SUBJECT TO THE REDUCT URAL SHEET 6-GI-105.	TED WITH AN OPERATING FACILITY ORMATION REGARDING SCHEDULE ORK TO MINIMIZE DISRUPTION OF E CONTRACTING OFFICER'S F WORK. ALL OTHER TRADES. VERIFY ALL EX ORK. <u>INOTES:</u> IS SUBJECT TO THE OVERALL PRO HITECTURAL SHEET 6-GI-102. IS ELECTED, ALL PLAN WORK ON T ED AREAS OF WORK AS DEFINED O
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ON PLAN - OR PLAN	PROJECT PHASE BID DOCUMENTS	RENOVATE A & B WING BUILDIN				
			PROJECT LOCATION 2200 SW GA TOPEKA, KS	AGE BLVD. 5 66622		
	FULLY SPRINKLERED	RED	DATE 07/10/19	CHECKED BY	DF	
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IOWN IS ASSOCIATED WITH AN OPERATING FACILITY THAT CE 24/7. R ADDITIONAL INFORMATION REGARDING SCHEDULE AND

ICAL WORK WITH ALL OTHER TRADES. VERIFY ALL EXISTING THE START OF WORK.

PHASING GENERAL NOTES: /N ON THIS SHEET IS SUBJECT TO THE OVERALL PROJECT DUTLINED ON ARCHITECTURAL SHEET 6-GI-102. DUCT ALTERNATE IS ELECTED, ALL PLAN WORK ON THIS T TO THE REDUCED AREAS OF WORK AS DEFINED ON

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CONSULTAN	T INFORMAT	ION
STRUCTURAL / CIVIL ENGINEER	MECHANICAL / ELECTRICAL / PLUMBING / TECHNICAL ENGINEER	FIRE PROTECTIC ENGINEER
STAND STRUCTURAL ENGINEERING	SPUR DESIGN	POOLE FIRE PRO

Revision #	

11827 W. 112TH STREET, SUITE 200 11020 KING STREET, SUITE 350 OVERLAND PARK, KS 66210 OVERLAND PARK, KS 66210 (913) 214-2169

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POOLE FIRE PROTECTION, INC. 19910 W. 161ST STREET OLATH, KS 66062 (913) 829-8650

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Date

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State Street Oklahoma City, OK 73109 Sur-design.com 11020 King Street, Suite 350 Overland Park, KS 66210 spur-design.com KS ARCH REG. NO. A-1139, EXP. 12/31/2019 KS ENGR REG. NO. E-2586, EXP. 12/31/2019

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Management **VA** U.S. Department of Veteran Affairs

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MOLITION FLOOR	PROJECT PHASE BID DOCUMENTS	PROJECT TITLE RENOVATE A & B WING BUILD PROJECT LOCATION	IN(
	FULLY SPRINKLERED	Z200 SVV GAGE BLVD.           TOPEKA, KS 66622           DATE           07/10/19           CHECKED BY           JES	DR.
	7 8		

	<u>GE</u>	NERAL NOTES:
	1.	THE AREA OF WORK SHOWN MUST REMAIN IN SERVICE 24/
	2.	SEE SHEET 6-GI-001 FOR ADD PHASING REQUIREMENTS. SC SERVICES.
	3.	COORDINATE WORK SCHEDU REPRESENTATIVE BEFORE TH
	4.	COORDINATE MECHANICAL W CONDITIONS PRIOR TO THE S
	DE	DUCT ALTERNATE AND PHASIN
	1.	ALL PLAN WORK SHOWN ON T PHASING SEQUENCE OUTLINE
	2.	IN ADDITION, IF THE DEDUCT A SHEET IS ALSO SUBJECT TO T ARCHITECTURAL SHEET 6-GI-
$\langle \cdot \rangle$	ME	CHANICAL DEMOLITION PLAN
	1.	UNLESS OTHERWISE NOTED, DUCTWORK, CONTROL DEVIC
	2.	REMOVE EXISTING HEATING A DUCTWORK, AND CONTROLS INFORMATION ON SHEET 6-GI
<b>(B-</b> )	ME	CHANICAL DEDUCT ALTERNAT
	B1.	ALL HVAC EQUIPMENT AND AS WING A SHALL BE EXISTING T

IS ASSOCIATED WITH AN OPERATING FACILITY THAT

DITIONAL INFORMATION REGARDING SCHEDULE AND CHEDULE WORK TO MINIMIZE DISRUPTION OF

ULE WITH THE CONTRACTING OFFICER'S THE START OF WORK.

WORK WITH ALL OTHER TRADES. VERIFY ALL EXISTING START OF WORK.

NG GENERAL NOTES: THIS SHEET IS SUBJECT TO THE OVERALL PROJECT NED ON ARCHITECTURAL SHEET 6-GI-102. ALTERNATE IS ELECTED, ALL PLAN WORK ON THIS

THE REDUCED AREAS OF WORK AS DEFINED ON -105. NOTES:

, DEMOLISH ALL MECHANICAL EQUIPMENT, CES, AND ACCESSORIES IN THIS AREA.

AND VENTILATING UNIT HV-1 AND ASSOCIATED PIPING, AS SHOWN. COORDINATE WORK WITH PHASING I-102.

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<u>FE PLAN NOTES</u>: SSOCIATED DUCTWORK AND ACCESSORIES IN O REMAIN IF THE DEDUCT ALTERNATE IS ELECTED UNLESS NOTED OTHERWISE. SEE SHEET 6-MH-103A FOR RELATED WORK. B2. THE AREA SHOWN IS NOT INCLUDED IN THE DEDUCT ALTERNATE. EXISTING MECHANICAL SYSTEMS SHALL REMAIN IF THE DEDUCT ALTERNATE IS ELECTED.

SEE SHEET 6-MH-103A FOR RELATED WORK AND INFORMATION.



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			- $        -$	CENERAL NOTES:         1. THE AREA OF WOM MUST REMAIN IN         2. SEE SHEET 6-GH PHASING REQUID SERVICES.         3. COORDINATE WOR REPRESENTATIV         4. COORDINATE ME CONDITIONS PRIME         DEDUCT ALTERNATE         1. ALL PLAN WORK PHASING SEQUE         2. IN ADDITION, IF T SHEET IS ALSO S ARCHITECTURAL         GENERAL MECHANIC         1. UNLESS OTHERV CONTROL DEVIC         (-) MECHANICAL DEMO         1. THE SUPPLY AIR AHU-01) AND TEF SHOWN ARE EXIST         (P) MECHANICAL PHASIN         1. THE LIMIT OF DEI EQUIPMENT/DUC 6-GI-102 AND 3/6-WORK.	URK SHOWN IS ASSOCIATED WITH AN OPERATING FACILITY SERVICE 24/7. 201 FOR ADDITIONAL INFORMATION REGARDING SCHEDULE REMENTS. SCHEDULE WORK TO MINIMIZE DISRUPTION OF 201 FOR ADDITIONAL INFORMATION REGARDING SCHEDULE 201 TO THE START OF WORK. 201 CALL WORK WITH ALL OTHER TRADES. VERIFY ALL EX 201 TO THE START OF WORK. 201 TO THE START OF WORK. 201 DIFINITION ON ARCHITECTURAL SHEET 6-GH102. 201 TO THE START OF WORK. 201 DIFINITION ON ARCHITECTURAL SHEET 6-GH102. 201 TO THE START OF WORK AS DEFINED C 201 SHEET 6-GH105. 201 DIFINITION ON ARCHITECTURAL SHEET 6-GH102. 201 DIFINITION ON ARCHITECTURAL SHEET 6-GH107. 201 DIFINITION ON ARCHITECTURAL SHEET 6-GH107. 201 DIFINITION ON THE REDUCED AREAS OF WORK AS DEFINED C 201 SHEET 6-GH105. 201 DIFINITION ON THE REDUCED AREAS OF WORK AS DEFINED C 201 SHEET 6-GH105. 201 DIFINITION ON THE REDUCED AREAS OF WORK AS DEFINED C 201 SHEET 6-GH105. 201 DIFINITION ON THE REDUCED AREAS OF WORK AS DEFINED C 201 SHEET 6-GH105. 201 DIFINITION ON THE REDUCED AREAS OF WORK AS DEFINED C 201 SHEET 6-GH105. 201 DIFINITION ON THE REDUCED AREAS OF WORK AS DEFINED C 201 DIFINITION SERVED FROM D-WING AIR HANDLING 201 MINIAL UNIT (TU-24). EQUIPMENT, DUCTWORK, AND ACCES 201 DIFINITION SERVED FROM D-WING AIR HANDLING 201 TINO SHOWN REPRESENTS THE PHASE 1 LIMIT OF DEF 202 FOR ADDITIONAL PHASING INFORMATION AND RELAT 202 FOR ADDITIONAL PHASING INFORMATION AND RELAT 203 FOR ADDITIONAL PHASING INFORMATION AND RELAT
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IOLITION =LOOR	PROJECT PH BID DC	HASE DCUMENTS		RENOVATE A & B WING BUILDIN				
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N IS ASSOCIATED WITH AN OPERATING FACILITY THAT DITIONAL INFORMATION REGARDING SCHEDULE AND

WORK WITH ALL OTHER TRADES. VERIFY ALL EXISTING START OF WORK. ING GENERAL NOTES:

I THIS SHEET IS SUBJECT TO THE OVERALL PROJECT NED ON ARCHITECTURAL SHEET 6-GI-102. FALTERNATE IS ELECTED, ALL PLAN WORK ON THIS THE REDUCED AREAS OF WORK AS DEFINED ON -105.

, DEMOLISH ALL MECHANICAL EQUIPMENT, DUCTWORK, CESSORIES IN THE AREA SHOWN.

IOWN IS SERVED FROM D-WING AIR HANDLING UNIT (6-T (TU-24). EQUIPMENT, DUCTWORK, AND ACCESSORIES EMAIN. SEE SHEET 6-MH-101B FOR RELATED WORK.

HOWN REPRESENTS THE PHASE 1 LIMIT OF DEMOLITION. RVING PT/OT SHALL REMAIN TEMPORARILY. SEE SHEETS ADDITIONAL PHASING INFORMATION AND RELATED





G A LEVEL 1	FLOOR PLAN		_		
EMOLITION ASEMENT	PROJECT PHASE BID DOCUMENTS	PROJECT TITLE RENOVATE A & B WING BUILDIN PROJECT LOCATION			
		2200 SW GAGE BLVD. TOPEKA, KS 66622			
	FULLY SPRINKLERED				
		DATE CHECKED BY JES			
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	GE	ENERAL NOTES:
	1.	THE AREA OF WORK SHOWN IS ASSOCIATED WITH AN OPERATING FACILITY THAT MUST REMAIN IN SERVICE 24/7.
	2.	SEE SHEET 6-GI-001 FOR ADDITIONAL INFORMATION REGARDING SCHEDULE AND PHASING REQUIREMENTS. SCHEDULE WORK TO MINIMIZE DISRUPTION OF SERVICES.
	3.	COORDINATE WORK SCHEDULE WITH THE CONTRACTING OFFICER'S REPRESENTATIVE BEFORE THE START OF WORK.
	4.	COORDINATE MECHANICAL WORK WITH ALL OTHER TRADES. VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF WORK.
	DE	EDUCT ALTERNATE AND PHASING GENERAL NOTES:
	1.	ALL PLAN WORK SHOWN ON THIS SHEET IS SUBJECT TO THE OVERALL PROJECT PHASING SEQUENCE OUTLINED ON ARCHITECTURAL SHEET 6-GI-102.
	2.	IN ADDITION, IF THE DEDUCT ALTERNATE IS ELECTED, ALL PLAN WORK ON THIS SHEET IS ALSO SUBJECT TO THE REDUCED AREAS OF WORK AS DEFINED ON ARCHITECTURAL SHEET 6-GI-105.
$\bigcirc$	ME	ECHANICAL DEMO PLAN NOTES:
	1.	UNLESS OTHERWISE NOTED, DEMOLISH ALL MECHANICAL EQUIPMENT, DUCTWORK,





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	ARCHITECT		Office of	SHEET TITLE MECHANICAL PIPI PI AN - WING B I F	NG DEMOLITION	PROJECT P BID D	HASE OCUMENTS		PROJECT TITLE RENOVATE	A & B WING BL	JILDIN
	Sport of the second	22162	Construction and Facilities Management	APPROVED: PROJECT DIRECTOR						PROJECT LOCATION 2200 SW GAGE BLVD. TOPEKA, KS 66622	
		TANSAS ONLENGT	<b>VA</b> U.S. Department of Veteran Affairs			FULLY	/ SPRINKLERED		DATE 07/10/19	CHECKED BY	DR C
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	<u>GE</u>	NERAL NOTES:
	1.	THE AREA OF WORK SHOWN IS ASSOCIATED WITH AN OPERATING FACILITY THAT MUST REMAIN IN SERVICE 24/7.
	2.	SEE SHEET 6-GI-001 FOR ADDITIONAL INFORMATION REGARDING SCHEDULE AND PHASING REQUIREMENTS. SCHEDULE WORK TO MINIMIZE DISRUPTION OF SERVICES.
	3.	COORDINATE WORK SCHEDULE WITH THE CONTRACTING OFFICER'S REPRESENTATIVE BEFORE THE START OF WORK.
	4.	COORDINATE MECHANICAL WORK WITH ALL OTHER TRADES. VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF WORK.
	DE	DUCT ALTERNATE AND PHASING GENERAL NOTES:
	1.	ALL PLAN WORK SHOWN ON THIS SHEET IS SUBJECT TO THE OVERALL PROJECT PHASING SEQUENCE OUTLINED ON ARCHITECTURAL SHEET 6-GI-102.
	2.	IN ADDITION, IF THE DEDUCT ALTERNATE IS ELECTED, ALL PLAN WORK ON THIS SHEET IS ALSO SUBJECT TO THE REDUCED AREAS OF WORK AS DEFINED ON ARCHITECTURAL SHEET 6-GI-105.
->	ME	CHANICAL DEMO PLAN NOTES:
	1.	UNLESS OTHERWISE NOTED, DEMOLISH ALL MECHANICAL EQUIPMENT, DUCTWOR CONTROL DEVICES, AND ACCESSORIES IN THIS AREA.







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ON PLAN -	PROJECT PHASE BID DOCUMENTS	PROJECT TITLE RENOVATE A & B WING BUILDIN PROJECT LOCATION 2200 SW GAGE BLVD. TOPEKA, KS 66622			
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	3.	COORDINATE WORK SCHEDULE REPRESENTATIVE BEFORE THE
	4.	COORDINATE MECHANICAL WOR CONDITIONS PRIOR TO THE STA
	DE	DUCT ALTERNATE AND PHASING
	1.	ALL PLAN WORK SHOWN ON THI PHASING SEQUENCE OUTLINED
	2.	IN ADDITION, IF THE DEDUCT ALT SHEET IS ALSO SUBJECT TO THE ARCHITECTURAL SHEET 6-GI-105
$\langle \cdot \rangle$	<u>ME</u>	CHANICAL DEMO PLAN NOTES:
	1.	DEMOLISH EXISTING GENERAL E CONTROLS AS SHOWN. PROVIDE RESULTING FROM DEMOLISHED
	2.	DEMOLISH EXISTING COOLING T AND CONTROLS AS SHOWN. CO STRUCTURAL SUPPORT PLATFO ARCHITECTURAL AND STRUCTU

GENERAL NOTES:

SERVICES.

B-> MECHANICAL DEDUCT ALTERNATE PLAN NOTES: B1. EXISTING EXHAUST FAN SHALL BE EXISTING TO REMAIN (ETR) UNDER THE DEDUCT ALTERNATE. SEE SHEET 6-GI-105 FOR ADDITIONAL DEDUCT ALTERNATE INFORMATION.

1. THE AREA OF WORK SHOWN IS ASSOCIATED WITH AN OPERATING FACILITY THAT MUST REMAIN IN SERVICE 24/7. 2. SEE SHEET 6-GI-001 FOR ADDITIONAL INFORMATION REGARDING SCHEDULE AND PHASING REQUIREMENTS. SCHEDULE WORK TO MINIMIZE DISRUPTION OF

> E WITH THE CONTRACTING OFFICER'S E START OF WORK.

ORK WITH ALL OTHER TRADES. VERIFY ALL EXISTING ART OF WORK. GENERAL NOTES:

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HIS SHEET IS SUBJECT TO THE OVERALL PROJECT D ON ARCHITECTURAL SHEET 6-GI-102. TERNATE IS ELECTED, ALL PLAN WORK ON THIS IE REDUCED AREAS OF WORK AS DEFINED ON 05.

EXHAUST FAN AND ASSOCIATED DUCTWORK AND DE PATCH AND REPAIR OF ROOF PENETRATIONS D EQUIPMENT UNLESS OTHERWISE NOTED. TOWER AND ASSOCIATED PIPING, ACCESSORIES, DORDINATE DEMOLITION OF THE COOLING TOWER ORM AND ROOF PATCH AND REPAIR WITH THE URAL CONTRACTORS.



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		GENERAL NOTES:	
		1. THE AREA OF WORK SH MUST REMAIN IN SERVI	10WN IS ASSOCIA ICE 24/7.
		2. SEE SHEET 6-GI-001 FO PHASING REQUIREMEN SERVICES.	R ADDITIONAL INF ITS. SCHEDULE W
		3. COORDINATE WORK SO REPRESENTATIVE BEFO	CHEDULE WITH TH ORE THE START C
		4. COORDINATE MECHAN CONDITIONS PRIOR TO	CAL WORK WITH THE START OF W
		DEDUCT ALTERNATE AND F	PHASING GENERA
		1. ALL PLAN WORK SHOW PHASING SEQUENCE O	N ON THIS SHEET UTLINED ON ARCI

- ARCHITECTURAL SHEET 6-GI-105.  $\langle - \rangle$  MECHANICAL DEMO PLAN NOTES:
- RESULTING FROM DEMOLISHED EQUIPMENT.
- (P-) MECHANICAL PHASING PLAN NOTES: WORK.



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ON PLAN -	PROJECT PHASE BID DOCUMENTS	RENOVATE A & B WING BUILDIN				
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ATED WITH AN OPERATING FACILITY THAT NFORMATION REGARDING SCHEDULE AND WORK TO MINIMIZE DISRUPTION OF

HE CONTRACTING OFFICER'S OF WORK. ALL OTHER TRADES. VERIFY ALL EXISTING VORK.

AL NOTES: ET IS SUBJECT TO THE OVERALL PROJECT CHITECTURAL SHEET 6-GI-102. 2. IN ADDITION, IF THE DEDUCT ALTERNATE IS ELECTED, ALL PLAN WORK ON THIS SHEET IS ALSO SUBJECT TO THE REDUCED AREAS OF WORK AS DEFINED ON

1. DEMOLISH EXISTING GENERAL EXHAUST FAN AND ASSOCIATED DUCTWORK AND CONTROLS AS SHOWN. PROVIDE PATCH AND REPAIR OF ROOF PENETRATIONS

1. NEW OUTSIDE AIR POWERED INTAKE HOOD SHALL BE INSTALLED IN ACCORDANCE WITH PHASING INFORMATION ON SHEET 6-GI-102. SEE SHEET 6-M-402 FOR RELATED



		CONSULTAN	T INFORMAT	ION
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SIGN PLAN - R PLAN	PROJECT PHASE BID DOCUMENTS		PROJECT TITLE RENOVATE A & B WING BUILDIN PROJECT LOCATION 2200 SW GAGE BLVD. TOPEKA, KS 66622		
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## GENERAL NOTES: MUST REMAIN IN SERVICE 24/7. SERVICES.

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- REPRESENTATIVE BEFORE THE START OF WORK.
- CONDITIONS PRIOR TO THE START OF WORK.
- 5. VAV BOX INLET AND OUTLET DUCTWORK SIZES SHALL MATCH UNIT INLET AND 3/4" UNLESS NOTED OTHERWISE ON PLAN.

### DEDUCT ALTERNATE AND PHASING GENERAL NOTES:

- 1. ALL PLAN WORK SHOWN ON THIS SHEET IS SUBJECT TO THE OVERALL PROJECT
- ARCHITECTURAL SHEET 6-GI-105.

- (-) MECHANICAL PLAN NOTES: INSPECTION OF THE ASSOCIATED FIRE DAMPER.
- REQUIRED FOR MAINTENANCE ACCESS TO THE ASSOCIATED VARIABLE AIR VOLUME TERMINAL UNIT.
- 3. ROUTE CONDENSATE FROM HUMIDIFIER TO MOP SINK.

## (B-) MECHANICAL DEDUCT ALTERNATE PLAN NOTES:

WING C

WING D

1. THE AREA OF WORK SHOWN IS ASSOCIATED WITH AN OPERATING FACILITY THAT 2. SEE SHEET 6-GI-001 FOR ADDITIONAL INFORMATION REGARDING SCHEDULE AND PHASING REQUIREMENTS. SCHEDULE WORK TO MINIMIZE DISRUPTION OF

3. COORDINATE WORK SCHEDULE WITH THE CONTRACTING OFFICER'S

4. COORDINATE MECHANICAL WORK WITH ALL OTHER TRADES. VERIFY ALL EXISTING

OUTLET CONNECTION SIZE UNLESS NOTED OTHERWISE ON PLAN. 6. VAV ATU HEATING HOT WATER SUPPLY AND RETURN PIPING BRANCHES SHALL BE

PHASING SEQUENCE OUTLINED ON ARCHITECTURAL SHEET 6-GI-102. 2. IN ADDITION, IF THE DEDUCT ALTERNATE IS ELECTED, ALL PLAN WORK ON THIS SHEET IS ALSO SUBJECT TO THE REDUCED AREAS OF WORK AS DEFINED ON

1. PROVIDE DUCT THROUGH RATED WALL WITH FIRE DAMPER AND DIFFUSER AS SHOWN. EXTEND DUCT THROUGH WALL AS REQUIRED FOR INSTALLATION AND 2. DIVISION 23 CONTRACTOR SHALL PROVIDE A RETURN GRILLE WITH NO DUCT CONNECTION FOR CIELING ACCESS AS SHOWN. ADJUST GRILLE LOCATION AS

B1. THE AREA SHOWN AND THE ASSOCIATED MEP DESIGN IS AFFECTED BY THE DEDUCT ALTERNATE, IF ELECTED. THE CONTRACTOR SHALL REFER TO SHEETS 6-GI-105 AND 6-MH-103A FOR RELATED WORK AND INFORMATION.





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SIGN PLAN - PLAN	PROJECT PHASE BID DOCUMENTS		PROJECT TITLE RENOVATE	A & B WING BL	JILDIN
			PROJECT LOCATION 2200 SW GAGE BLVD. TOPEKA, KS 66622		
	FULLY SPRINKLERED		DATE 07/10/19	CHECKED BY JES	DF J
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IS ASSOCIATED WITH AN OPERATING FACILITY THAT /7.
NITIONAL INFORMATION REGARDING SCHEDULE AND CHEDULE WORK TO MINIMIZE DISRUPTION OF
ILE WITH THE CONTRACTING OFFICER'S HE START OF WORK.
VORK WITH ALL OTHER TRADES. VERIFY ALL EXISTING START OF WORK.
DUCTWORK SIZES SHALL MATCH UNIT INLET AND NLESS NOTED OTHERWISE ON PLAN.
R SUPPLY AND RETURN PIPING BRANCHES SHALL BE Se on Plan.



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![](_page_11_Figure_2.jpeg)

ESIGN PLAN VEL	PROJECT PHASE BID DOCUMENTS		RENOVATE A & B WING BUILDIN		
			PROJECT LOCATION 2200 SW GA TOPEKA, KS	AGE BLVD. 5 66622	
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WING C

2.	SEE SHEET 6-GI-001 FOR ADDI PHASING REQUIREMENTS. SC SERVICES.
3.	COORDINATE WORK SCHEDUL REPRESENTATIVE BEFORE TH
4.	COORDINATE MECHANICAL WE EXISTING CONDITIONS PRIOR
5.	VAV BOX INLET AND OUTLET D OUTLET CONNECTION SIZE UN
6.	VAV ATU HEATING HOT WATER BE 3/4" UNLESS NOTED OTHER
<u>DE</u>	DUCT ALTERNATE AND PHASIN

GENERAL NOTES:

THE AREA OF WORK SHOWN IS ASSOCIATED WITH AN OPERATING FACILITY THAT MUST REMAIN IN SERVICE 24/7.

![](_page_11_Figure_14.jpeg)

![](_page_11_Figure_15.jpeg)

![](_page_12_Figure_0.jpeg)

![](_page_12_Figure_6.jpeg)

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### GENERAL NOTES:

- MUST REMAIN IN SERVICE 24/7. SERVICES.

- - 3/4" UNLESS NOTED OTHERWISE ON PLAN.

### DEDUCT ALTERNATE AND PHASING GENERAL NOTES:

- ARCHITECTURAL SHEET 6-GI-105.

![](_page_12_Figure_17.jpeg)

ESIGN PLAN VEL	PROJECT PHASE BID DOCUMEN	NTS	PROJECT TITLE RENOVATE	A & B WING BU	JILDIN
			PROJECT LOCATION 2200 SW GA TOPEKA, KS	AGE BLVD. 6 66622	
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1. THE AREA OF WORK SHOWN IS ASSOCIATED WITH AN OPERATING FACILITY THAT 2. SEE SHEET 6-GI-001 FOR ADDITIONAL INFORMATION REGARDING SCHEDULE AND PHASING REQUIREMENTS. SCHEDULE WORK TO MINIMIZE DISRUPTION OF 3. COORDINATE WORK SCHEDULE WITH THE CONTRACTING OFFICER'S REPRESENTATIVE BEFORE THE START OF WORK.

4. COORDINATE MECHANICAL WORK WITH ALL OTHER TRADES. VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF WORK. 5. VAV BOX INLET AND OUTLET DUCTWORK SIZES SHALL MATCH UNIT INLET AND OUTLET CONNECTION SIZE UNLESS NOTED OTHERWISE ON PLAN.

6. VAV ATU HEATING HOT WATER SUPPLY AND RETURN PIPING BRANCHES SHALL BE

 ALL PLAN WORK SHOWN ON THIS SHEET IS SUBJECT TO THE OVERALL PROJECT PHASING SEQUENCE OUTLINED ON ARCHITECTURAL SHEET 6-GI-102. 2. IN ADDITION, IF THE DEDUCT ALTERNATE IS ELECTED, ALL PLAN WORK ON THIS SHEET IS ALSO SUBJECT TO THE REDUCED AREAS OF WORK AS DEFINED ON

![](_page_13_Figure_0.jpeg)

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ESIGN PLAN PR PLAN	PROJECT PHASE BID DOCUMENTS	PROJECT TITLE RENOVATE	RENOVATE A & B WING BUILDIN		
		PROJECT LOCATION	AGE BLVD.		
		TOPEKA, KS 66622			
	FULLI SPRINKLERED	DATE 07/10/19	CHECKED BY		

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	<u>GEI</u>	NERAL NOTES:	
	1.	THE AREA OF WORK SHO MUST REMAIN IN SERVICE	WN I 24/7
	2.	SEE SHEET 6-GI-001 FOR / PHASING REQUIREMENTS SERVICES.	ADDI 5. SC
	3.	COORDINATE WORK SCHI REPRESENTATIVE BEFOR	e Th
	4.	COORDINATE MECHANICA CONDITIONS PRIOR TO TH	NL W
	5.	VAV BOX INLET AND OUTL OUTLET CONNECTION SIZ	.et c :e un
	6.	VAV ATU HEATING HOT W 3/4" UNLESS NOTED OTHE	ATEF RWI
	DED	OUCT ALTERNATE AND PHA	SIN
	1.	ALL PLAN WORK SHOWN ( PHASING SEQUENCE OUT	ON TI LINE
	2.	IN ADDITION, IF THE DEDU SHEET IS ALSO SUBJECT <sup>-</sup> ARCHITECTURAL SHEET 6	CT A ГО TI -GI-1
<->	<u>ME(</u> 1	CHANICAL PIPING PLAN NO HEATING WATER SUPPLY NOTED OTHERWISE.	<u>tes</u> ′ Ani

![](_page_13_Figure_4.jpeg)

IS ASSOCIATED WITH AN OPERATING FACILITY THAT DITIONAL INFORMATION REGARDING SCHEDULE AND CHEDULE WORK TO MINIMIZE DISRUPTION OF JLE WITH THE CONTRACTING OFFICER'S

HE START OF WORK. VORK WITH ALL OTHER TRADES. VERIFY ALL EXISTING START OF WORK.

DUCTWORK SIZES SHALL MATCH UNIT INLET AND INLESS NOTED OTHERWISE ON PLAN. ER SUPPLY AND RETURN PIPING BRANCHES SHALL BE /ISE ON PLAN. IG GENERAL NOTES:

THIS SHEET IS SUBJECT TO THE OVERALL PROJECT IED ON ARCHITECTURAL SHEET 6-GI-102. ALTERNATE IS ELECTED, ALL PLAN WORK ON THIS THE REDUCED AREAS OF WORK AS DEFINED ON -105.

ND RETURN BRANCH PIPING TO BE 3/4" UNLESS

![](_page_14_Figure_0.jpeg)

![](_page_14_Figure_1.jpeg)

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Revision #

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Date

![](_page_14_Figure_14.jpeg)

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- SERVICES.

![](_page_14_Figure_27.jpeg)

ESIGN PLAN R PLAN	PROJECT PHASE BID DOCUMENTS	PROJECT TITLE RENOVATE	RENOVATE A & B WING BUILDIN			
		PROJECT LOCATION 2200 SW GAGE BLVD. TOPEKA, KS 66622				
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![](_page_14_Figure_30.jpeg)

![](_page_15_Figure_0.jpeg)

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![](_page_15_Figure_3.jpeg)

DITIONAL INFORMATION REGARDING SCHEDULE AND CHEDULE WORK TO MINIMIZE DISRUPTION OF	
JLE WITH THE CONTRACTING OFFICER'S HE START OF WORK.	А
VORK WITH ALL OTHER TRADES. VERIFY ALL EXISTING START OF WORK.	
DUCTWORK SIZES SHALL MATCH UNIT INLET AND INLESS NOTED OTHERWISE ON PLAN.	
ER SUPPLY AND RETURN PIPING BRANCHES SHALL BE /ISE ON PLAN.	
NG GENERAL NOTES:	
THIS SHEET IS SUBJECT TO THE OVERALL PROJECT ED ON ARCHITECTURAL SHEET 6-GI-102.	
ALTERNATE IS ELECTED, ALL PLAN WORK ON THIS THE REDUCED AREAS OF WORK AS DEFINED ON -105.	
UNIT, ENERGY RECOVERY VENTILATOR AND ORK, AND CONTROLS AS SHOWN. AIR HANDLING UNIT IE MINIMUM WIDTH AS SCHEDULED ON SHEET 6-M-601	
D ENERGY RECOVERY VENTILATOR SHALL MOUNT ON A HEIGHT SHALL BE MIN. 26" IN HEIGHT.	В
IEAT TRACE ON ALL PIPING ABOVE ROOF LEVEL. HEAT " BELOW THE ROOF SLAB.	
" CONDENSATE LINE FROM AHU TO NEAREST ROOF	

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![](_page_16_Figure_0.jpeg)

![](_page_16_Figure_4.jpeg)

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					GENERAL NOTE	<u>S:</u>
					1. THE AREA O MUST REMA	F WORK SHOWN IN IN SERVICE 24/
					2. SEE SHEET PHASING RE SERVICES.	3-GI-001 FOR ADD QUIREMENTS. SC
					3. COORDINAT REPRESENT	E WORK SCHEDU ATIVE BEFORE TI
					4. COORDINAT CONDITIONS	E MECHANICAL W
					5. VAV BOX INL OUTLET COM	ET AND OUTLET
					6. VAV ATU HE. 3/4" UNLESS	ATING HOT WATE NOTED OTHERW
					DEDUCT ALTER	NATE AND PHASIN
					1. ALL PLAN W PHASING SE	ORK SHOWN ON <sup>-</sup> QUENCE OUTLINI
					2. IN ADDITION SHEET IS AL ARCHITECTU	IF THE DEDUCT SO SUBJECT TO JRAL SHEET 6-GI-
					-> MECHANICAL PL	AN NOTES:
3		2			1. INSTALL NEV ASSOCIATEI SHALL NOT I	V AIR HANDLING ) PIPING, DUCTW 3E LESS THAN TH
					2. NEW AIR HA CUSTOM RC	NDLING UNIT AND OF CURB. CURB
					3. CONTRACTO TRACE SHAL	R TO PROVIDE H L EXTEND MIN. 6
					4. CONTRACTO DRAIN. CON FOR RELATE	NR TO PROVIDE 1 FRACTOR TO PRO
				(H)	5. EXHAUST FA	N CURB IS NOT V
( <u>)</u>					(P-) MECHANICAL PH	ASING PLAN NOT
					P1. PROVIDE TE SOURCE FO ACCOMMOD	MPORARY POWE R THE EXISTING E ATE PHASING RE
		©		G	P2. EXHAUST FA INSTALLED I WING PT/OT PHASING INF	N EF 2-2 WITH AS N THE LOCATION ROOM DURING P FORMATION.
				O	P3. THE DIVISIO REQUIRED T ON SHEET 6	N 23 CONTRACTO O CONVERT EXH -MH-101B.
 				(F.1)		
		  ()				
 				(E.1)		

![](_page_16_Figure_6.jpeg)

LAN - WING	PROJECT F	OCUMENTS		RENOVATE A & B WING BUILDING (			
				PROJECT LOCATION 2200 SW GAGE BLVD. TOPEKA, KS 66622			
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	Revision #	Date	STRUCTURAL / CIVIL ENGINEER STAND STRUCTURAL ENGINEERING 11827 W. 112TH STREET, SUITE 200 OVERLAND PARK, KS 66210 (913) 214-2169	MECHANICAL / ELECTRICAL / PLUMBING / TECHNICAL ENGINEER SPUR DESIGN 11020 KING STREET, SUITE 350 OVERLAND PARK, KS 66210 (405) 842-6100	ON FIRE PROTECTION ENGINEER POOLE FIRE PROTECTION, INC. 19910 W. 161ST STREET OLATH, KS 66062 (913) 829-8650

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![](_page_17_Figure_1.jpeg)

![](_page_17_Picture_2.jpeg)

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OUCT GALEVEI	PROJECT PHASE BID DOCUMENTS	PROJECT TITLE RENOVATE	RENOVATE A & B WING BUILDIN			
		PROJECT LOCATION 2200 SW GAGE BLVD. TOPEKA, KS 66622				
	FULLY SPRINKLERED	DATE 07/10/19	CHECKED BY	DR J		
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![](_page_17_Figure_7.jpeg)

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![](_page_18_Figure_6.jpeg)

![](_page_18_Figure_7.jpeg)

GRAMS	PROJECT PHASE BID DOCUN	PROJECT PHASE BID DOCUMENTS		PROJECT TITLE RENOVATE A & B WING BUILDING 6 PROJECT LOCATION 2200 SW GAGE BLVD. TOPEKA, KS 66622		
			PROJECT LOCATION 2200 SW GA TOPEKA, KS			
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![](_page_19_Figure_0.jpeg)

![](_page_19_Figure_1.jpeg)

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![](_page_19_Picture_9.jpeg)

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ED PLANS I				RENOVATE A & B WING BUILI			
				PROJECT LOCATION 2200 SW GAGE BLVD.			
				TOPEKA, KS	66622		
				DATE 07/10/19	CHECKED BY		
	7		8		9		

1. THE AREA OF WORK SHOWN IS ASSOCIATED WITH AN OPERATING FACILITY THAT MUST REMAIN IN SERVICE 24/7. 2. SEE SHEET 6-GI-001 FOR ADDITIONAL INFORMATION REGARDING SCHEDULE AND PHASING REQUIREMENTS. SCHEDULE WORK TO MINIMIZE DISRUPTION OF SERVICES. 3. COORDINATE WORK SCHEDULE WITH THE CONTRACTING OFFICER'S REPRESENTATIVE BEFORE THE START OF WORK. 4. COORDINATE MECHANICAL WORK WITH ALL OTHER TRADES. VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF WORK. 5. PROVIDE TRANSITION FROM VAV BOX INLET AND OUTLET CONNECTIONS TO THE SIZES SCHEDULED ON SHEET 6-M-602. 6. VAV ATU HEATING HOT WATER SUPPLY AND RETURN PIPING BRANCHES SHALL BE 3/4" UNLESS NOTED OTHERWISE ON PLAN. DEDUCT ALTERNATE AND PHASING GENERAL NOTES: 1. ALL PLAN WORK SHOWN ON THIS SHEET IS SUBJECT TO THE OVERALL PROJECT PHASING SEQUENCE OUTLINED ON ARCHITECTURAL SHEET

2. IN ADDITION, IF THE DEDUCT ALTERNATE IS ELECTED, ALL PLAN WORK ON THIS SHEET IS ALSO SUBJECT TO THE REDUCED AREAS OF WORK AS DEFINED ON ARCHITECTURAL SHEET 6-GI-105.

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![](_page_19_Figure_22.jpeg)

o					
				14"X14" EA UP TO EF 2-2 ON ROOF.	рнузісаl тнекару B129
			<ul> <li>3/6-M-402 MECHAN</li> <li>DEMOLISH SU AND PROVIDE</li> <li>PROVIDE ELEC SHOWN. PROV MODULATION</li> <li>EXISTING FAN AIR BALANCE</li> <li>PROVIDE NEW PROVIDE TEM DUCTWORK. E SCHEDULE IN</li> </ul>	NICAL PHASING PLAN NOTES: PPLY AIR DUCTWORK TO THE PH NEW DUCT DOWN FROM OAF 2- CTRIC RESISTANT HEATING ELEN /IDE UNIT WITH SILICON CONTRO FROM 0-100% CAPACITY. COIL UNITS SHALL SERVE THE E SHALL REMAIN. / EXHAUST FAN EF 2-2 ON ROOF PORARY EXHAUST GRILLE IN EXI EXHAUST FAN EF 2-2 SHALL REMA THIS AREA WITH THE CONTRACT	ASE 1 LIMIT OF DEMOLITION SHOWN ON S ON ROOF AS SHOWN. NENT EHE-1 ON INCOMING OUTSIDE AIR DU DULED RECTIFIER (SCR) CONTROLS FOR T XISTING PT/OT ROOM FOR THIS PHASE OF AND ASSOCIATED TEMPORARY EXHAUST STING CIELING AND CONNECT TO TEMPO AIN AFTER COMPLETION OF THIS PHASE. OF ING OFFICER'S REPRESENTATIVE.
			1/4" = 1'-0"		
F					
			CONSULTAN	T INFORMAT	ION
	Revision #	Date	STRUCTURAL / CIVIL ENGINEER STAND STRUCTURAL ENGINEERING 11827 W. 112TH STREET, SUITE 200 OVERLAND PARK, KS 66210 (913) 214-2169	MECHANICAL / ELECTRICAL / PLUMBING / TECHNICAL ENGINEER SPUR DESIGN 11020 KING STREET, SUITE 350 OVERLAND PARK, KS 66210 (405) 842-6100	FIRE PROTECTION ENGINEER POOLE FIRE PROTECTION, INC. 19910 W. 161ST STREET OLATH, KS 66062 (913) 829-8650

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2

![](_page_20_Picture_3.jpeg)

# 2 ENLA 1/4" = 1'-0"

![](_page_20_Figure_6.jpeg)

### TANK CONTROLLER IN LOCATION SHOWN. SEE DETAIL 6/6-M-503 FOR RELATED INFORMATION.

- 5. PROVIDE VERTICAL DROP IN RETURN DUCT ROUTING IN LOCATION SHOWN. COORDINATE WITH VAV PIPING CONNECTIONS AND MAINTENANCE ACCESS.
- 4. PROVIDE FIRE DAMPER ON DUCT PENETRATIONS THROUGH WALL IN LOCATIONS SHOWN.
- DUCTWORK TO ALLOW FOR PIPING CONNECTIONS AND MAINTENANCE AS REQUIRED.
- 1. ROUTE DUCT BELOW ROOF FRAMING STRUCTURE IN LOCATION(S) SHOWN.

![](_page_20_Figure_12.jpeg)

![](_page_20_Figure_13.jpeg)

## PLAN - PHASING PLAN

T DUCT AS SHOWN. RARY EXHAUST . COORDINATE WORK

F DESIGN. EXISTING

OUCT IN LOCATION **TEMPERATURE** 

SHEET 6-MHD101B

![](_page_20_Figure_19.jpeg)

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D PLANS II	PROJECT PHASE BID DOCUMENTS		RENOVATE A & B WING BUILDIN			
			PROJECT LOCATION 2200 SW GAG	E BLVD.		
			TOPEKA, KS 66622			
			date 07/10/19	CHECKED BY		
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## ENLARGED MECHANICAL HVAC PLAN - DAY ROOM / DINING ROOM RETURN AIR DEVICES

CEILING PLAN.

SEE DIMENSIONS ON PLAN.

TYPICAL OF ALL CORNER SEGMENTS.

DIMENSIONS ON PLAN.

 $\langle - \rangle$  2/6-M-402 MECHANICAL PLAN NOTES: 1. LOOP LINEAR SLOT RETURN AIR DEVICES TO FOLLOW LOW CEILING AND LIGHTING LAYOUT. COORDINATE FINAL DIMENSIONS AND LOCATION WITH THE ELECTRICAL AND ARCHITECTURAL REFLECTED

2. ACTIVE SECTION OF LINEAR SLOT RETURN AIR DEVICES. PROVIDE

3. INACTIVE SECTION OF LINEAR SLOT RETURN AIR DEVICES. SEE

4. INACTIVE MITERED CORNER FOR LINEAR SLOT RETURN LOOP.

PLENUM AND CONNECTION TO RETURN DUCT MAIN AS REQUIRED.

# ENLARGED MECHANICAL HVAC PLAN - DINING & DAY ROOM (B108)

6. CONTRACTOR SHALL INSTALL TRANSFER AIR GRILLE IN TOP OF CABINET DIRECTLY ABOVE THE VIRTUAL FISH

3. REFER TO PLAN 2/6-M-402 FOR RETURN AIR DEVICE LAYOUT AND ASSOCIATED INFORMATION.

2. PROVIDE VARIABLE AIR VOLUME TERMINAL UNITS VAV 2-37 AND VAV 2-38 IN THE LOCATION SHOWN. ROUTE

GENERAL NOTES: 1. THE AREA OF WORK SHOWN IS ASSOCIATED WITH AN OPERATING FACILITY THAT MUST REMAIN IN SERVICE 24/7. 2. SEE SHEET 6-GI-001 FOR ADDITIONAL INFORMATION REGARDING SCHEDULE AND PHASING REQUIREMENTS. SCHEDULE WORK TO MINIMIZE DISRUPTION OF SERVICES. 3. COORDINATE WORK SCHEDULE WITH THE CONTRACTING OFFICER'S REPRESENTATIVE BEFORE THE START OF WORK. 4. COORDINATE MECHANICAL WORK WITH ALL OTHER TRADES. VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF WORK. 5. PROVIDE TRANSITION FROM VAV BOX INLET AND OUTLET CONNECTIONS TO THE SIZES SCHEDULED ON SHEET 6-M-602. 6. VAV ATU HEATING HOT WATER SUPPLY AND RETURN PIPING BRANCHES SHALL BE 3/4" UNLESS NOTED OTHERWISE ON PLAN. DEDUCT ALTERNATE AND PHASING GENERAL NOTES: 1. ALL PLAN WORK SHOWN ON THIS SHEET IS SUBJECT TO THE OVERALL PROJECT PHASING SEQUENCE OUTLINED ON ARCHITECTURAL SHEET 6-GI-102. 2. IN ADDITION, IF THE DEDUCT ALTERNATE IS ELECTED, ALL PLAN WORK ON THIS SHEET IS ALSO SUBJECT TO THE REDUCED AREAS OF WORK AS DEFINED ON ARCHITECTURAL SHEET 6-GI-105.

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![](_page_20_Figure_40.jpeg)

![](_page_21_Figure_0.jpeg)

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VA FORM 08-6231

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![](_page_21_Figure_5.jpeg)

### - INSTALL MANUAL AIR VENT AT HIGH POINT WHEN TAPPED INTO TOP OF MAINS. USE A PIPE STUB WITH MIN. HEIGHT OF 4 PIPE DIAMETERS. (TYP.) - CONNECT TO SUPPLY AND RETURN MAINS AS SHOWN ON PLAN.

RETURN PIPING MAIN 

PLENUM. LINE WITH SHEET METAL AND PROVIDE SEAL ON ALL JOINTS. LOCATION OF SUPPLY DUCT THROUGH ROOF SHALL BE AS REQUIRED.

3

3. REPLACE UNION/FLANGE SET WITH A FLEXIBLE PIPE CONNECTOR WHERE

AHU COIL PIPING CONNECTIONS DETAIL WITH 2-WAY PRESSURE INDEPENDENT CONTROL VALVE NOT TO SCALE

![](_page_21_Figure_12.jpeg)

![](_page_21_Figure_16.jpeg)

ARCHITECT		Office of	SHEET TITLE MECHANICAL DETAILS I		PROJECT PHASE BID DOCUMENTS		RENOVATE	A & B WING BUILI	JINC
SDIT	STANKINE. SOMACO	Construction and Facilities					PROJECT LOCATION	GE BLVD	
DESIGN	22162 7/10/2019 5	Management	APPROVED: PROJECT DIRECTOR		FULLY SPRINKLERED			66622	
KS ARCH REG. NO. A-1139, EXP. 12/31/2019 KS ENGR REG. NO. E-2586, EXP. 12/31/2019	SSIONAL ENGINITY	VAU.S. Department of Veteran Affairs					DATE 07/10/19		
4		5	6	7		8		9	

	UNIT CONFIGURATION LEGEND
	RETURN AIR INTAKE
2	RETURN FAN ARRAY
3	RELIEF AIR OUTLET
$\langle 4 \rangle$	OA INTAKE PLENUM
5	MERV 7 PRE-FILTER
6	MERV 11 PRE-FILTER
7	IFB PREHEAT COIL
8	HUMIDIFIER
(9)	ACCESS SECTION
(10)	COOLING COIL
(11)	SUPPLY FAN ARRAY
(12)	MERV 14 AFTER FILTER
(13)	DISCHARGE PLENUM
(14)	CUSTOM ROOF CURB
	SOUND ATTENUATOR SECTION
(16)	ENERGY RECOVERY VENTILATOR

![](_page_22_Figure_0.jpeg)

VA

		CONSULTANT INFORMATION				
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FORM 08-6231 1		2		3		

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![](_page_22_Figure_2.jpeg)

![](_page_22_Figure_3.jpeg)

RESISTIVE ELEMENT HUMIDIFIER DETAIL NOT TO SCALE

FROM BOTTOM OF STEAM MAIN TO TRAP INLET. DRIP LEG SHALL HAVE 6" SCALE POCKET BELOW TRAP INLET. 2. PROVIDE BYPASS PIPING.

FROM ELECTRIC STEAM HUMIDIFIER -

6

SHEET TITLE MECHANICAL DETAILS II ARCHITECT Office of Construction **SDUL** DESIGN and Facilities APPROVED: PROJECT DIRECTOR Management 22162 7/10/2019 312 SW 25th Street Oklahoma City, OK 73109 spur-design.com 11020 King Street, Suite 350 Overland Park, KS 66210 spur-design.com VA U.S. Department of Veteran Affairs ONAL KS ARCH REG. NO. A-1139, EXP. 12/31/2019 KS ENGR REG. NO. E-2586, EXP. 12/31/2019

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PROJECT PH BID DC	ASE OCUMENTS		PROJECT TITLE RENOVATE	RENOVATE A & B WING BUILDIN			
			PROJECT LOCATION	AGE BLVD			
FIIIIV		h	TOPEKA, K	.S 66622			
		<b>,</b>	DATE 07/10/19	CHECKED BY	DF J		
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![](_page_22_Figure_11.jpeg)

![](_page_22_Figure_12.jpeg)

![](_page_22_Figure_13.jpeg)

![](_page_22_Figure_14.jpeg)

![](_page_22_Figure_15.jpeg)

![](_page_22_Figure_16.jpeg)

![](_page_22_Figure_17.jpeg)

NOTE:

- ADJUSTED TO FACILITATE GRAVITY RETURN OF STEAM CONDENSATE.

![](_page_22_Figure_34.jpeg)

![](_page_22_Figure_39.jpeg)

<u>NOTES</u>

6 STEAM DISPERSION GRID DETAIL NOT TO SCALE

(5) INVERTED BUCKET STEAM TRAP ASSEMBLY NOT TO SCALE

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![](_page_22_Figure_61.jpeg)

![](_page_23_Figure_0.jpeg)

VA

	CONSULTANT INFORMATION				
Revision # Date	STRUCTURAL / CIVIL ENGINEER STAND STRUCTURAL ENGINEERING 11827 W. 112TH STREET, SUITE 200 OVERLAND PARK, KS 66210 (913) 214-2169	MECHANICAL / ELECTRICAL / PLUMBING / TECHNICAL ENGINEER SPUR DESIGN 11020 KING STREET, SUITE 350 OVERLAND PARK, KS 66210 (405) 842-6100	FIRE PROTECTION ENGINEER POOLE FIRE PROTECTION, INC. 19910 W. 161ST STREET OLATH, KS 66062 (913) 829-8650		
FORM 08-6231 1	2		3		

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![](_page_23_Figure_2.jpeg)

![](_page_23_Figure_3.jpeg)

![](_page_23_Figure_5.jpeg)

![](_page_23_Picture_7.jpeg)

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I	PROJECT PHASE BID DOCUMENTS			PROJECT TITLE RENOVATE A & B WING BUILDING 6				
				PROJECT LOCATION	AGE BLVD			
	FULLY				TOPEKA, KS 66622			
				DATE 07/10/19	CHECKED BY JES	DRAW JAD		
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BUILDING NUMBER DRAWING NUMBER 6-M-503 RAWN BY Dwg. 113 **OF** 160 AD